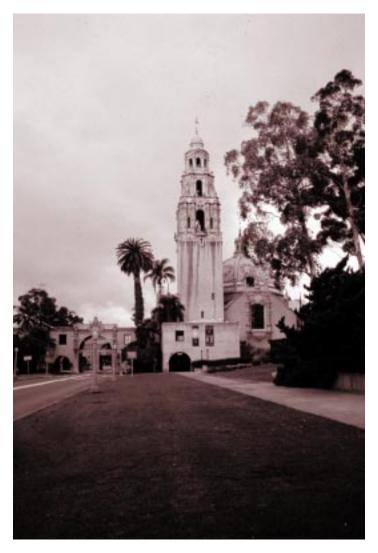
APPENDIX



BALBOA PARK, SAN DIEGO, CALIFORNIA

APPENDIX ALetter to Project Proponents

APPENDIX B BECC Step I: Pre-Proposal Form

APPENDIX C NADB IDP Information Sheet

APPENDIX D Global Technology Network Registration Form and Codes

APPENDIX EAtlernate Financing Services

LETTER TO PROJECT PROPONENTS







Mr. Peter M. Rooney Chair

M.C. Adolfo Gonzalez Calvillo Member

Ms. Joan Milke Flores
Member

Ing. Fernando Aceves Salmon

Julie Meier Wright Member

Lic. Jorge Gallego Salas Member

Lic. Ramon Salido Almada Member

California Border Environmental Cooperation Committee Comísion de Cooperacíon Ecológica Fronteriza de las Californias



GOBIERNO DEL ESTAD

June 16, 1997

Dear Interested Party:

In an effort to strategically position California for maximum funding from the North American Development Bank (NADBank) and the United States Environmental Protection Agency for environmental infrastructure projects, and as the designated California Environmental Protection Agency Representative for California-Mexico issues, I would like to cordially invite you to provide input to the 1997 California-Baja California Border Environment Needs Assessment Report.

In 1995, the first report of this type was published. It addressed many infrastructure projects along with non-infrastructure environmental related projects. In order to provide the most useful report possible, the 1997 Report will focus on the three priority areas established by the Border Environment Cooperation Commission (BECC). These are: potable water supply, waste water collection, treatment and disposal and municipal solid waste. The report will be prepared jointly with our Baja California counterparts.

By providing an updated version of the California Border Environment Needs Assessment Report, California and Baja California will highlight their environmental infrastructure needs and will have the opportunity to prepare themselves in seeking construction, and technical assistance grants for infrastructure projects from the BECC and NADBank. These grants will be based on community need and will be awarded on a first come first serve basis.

I urge you to participate in this worthwhile project by providing the information outlined in the enclosed information sheet, by September 3, 1997. We would like to have a finished report ready for distribution by October 1997. Therefore, time is of the essence.

For your information, we have enclosed printed information on the BECC, the NADBank and the California Border Environmental Cooperation Committee (Cal/BECC). Additionally, the BECC Project Certification Criteria may be accessed at http://cocef.interjuarez.com via the Internet or can be requested by fax to:

Attn. Ricardo Martinez, (916) 227-4349.

Now, more than ever, your opportunity to identify, plan and fund your infrastructure projects is at hand. Projects included in this report will be presented by California and Baja California to federal and binational funding agencies for potential financial or technical assistance. Please send your information no later than September 3, 1997 in the format described in the enclosed information sheet to:

Ricardo Martinez, Cal/BECC Coordinator 2014 T Street, Suite 130 Sacramento, CA 95814

If you should require additional information, please call Mr. Ricardo Martinez, Cal/BECC coordinator, at (916) 227-4328 or Mr. Paulino Luna, Waste Management Engineer at (916) 255-3882.

Sincerely,

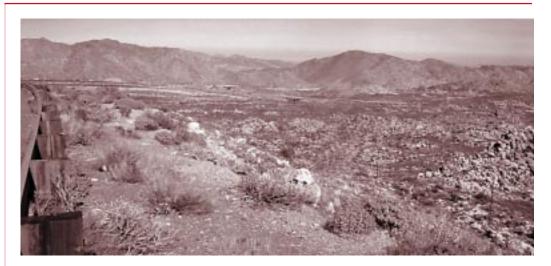
James M. Stubchaer

Vice Chair

State Water Resources Control Board

enclosures

BECC STEP I PRE-PROPOSAL FORM



DESERT REGION NEAR THE IMPERIAL VALLEY

Border Environment Cooperation Commission

STEP I: PRE-PROPOSAL

NAME OF THE PROJECT: TYPE OF INFRASTRUCTURE: A Water Supply C Solid Waste M. B Other Related PROJECT DESCRIPTION BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT NAME OF THE ORGANIZATION:	Date of Receipt by the BECC							
NAME OF THE PROJECT: TYPE OF INFRASTRUCTURE: A Water Supply C Solid Waste M. B Wastewater Treatment D Other Related PROJECT DESCRIPTION BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT								
TYPE OF INFRASTRUCTURE: A Water Supply C Solid Waste M B Wastewater Treatment D Other Related PROJECT DESCRIPTION BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT	NAME AND TYPE OF PROJECT							
A Water Supply C Solid Waste M. B Wastewater Treatment D Other Related PROJECT DESCRIPTION: BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT								
A Water Supply C Solid Waste M. B Wastewater Treatment D Other Related PROJECT DESCRIPTION: BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT								
A Water Supply C Solid Waste M. B Wastewater Treatment D Other Related PROJECT DESCRIPTION: BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT								
B Wastewater Treatment D Other Related PROJECT DESCRIPTION BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT								
PROJECT DESCRIPTION: BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT								
BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT	Projects							
BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT								
BRIEF PROJECT DESCRIPTION: PRIMARY APPLICANT								
PRIMARY APPLICANT								
PRIMARY APPLICANT								
NAME OF THE ORGANIZATION:								
NAME OF THE ORGANIZATION:								
Name of Contact Person:								
Position:								
Address:								
City: State:	Zip Code							
Phone No.: Fax No.:								
E-mail Address:								

15. ESTIMATED USEFUL LIFETIME OF THE PROJECT: ______ years

DESCRIPTION OF THE P	ROJECT	
A. IF THE PROJECT IS RELATED TO WATER SUPPLY, IT CON	CERNS:	
16. DEVELOPMENT OF A WATER SOURCE:	Yes	No
17. WATER TREATMENT:	Yes	No
18. WATER DISTRIBUTION:	Yes	No
19. CONTROL OF SUPPLY IN DISTRIBUTION SYSTEM:	Yes	No
20. PUMP STATIONS AND SUMPS:	Yes	No
21. WATER TRANSMISSION LINES:	Yes	No
22. OTHER:		
B. IF THE PROJECT IS RELATED TO WASTEWATER TREATME	FNT IT CONCERNS:	
D. II THE I WOJECT IS RELATED TO WESTERNIEW INTERNAL	avi, ii conclaid.	i i
23. TYPE OF WASTEWATER :	Municipal	Industrial
24. SEWER SYSTEM:	Yes	No
25. COLLECTOR TRUNK LINES:	Yes	No
26. WASTEWATER TREATMENT PLANTS:	Yes	No
27. WATER REUSE:	Yes	No
28. DISCHARGE OF TREATED WASTEWATER:	Yes	No
29. TREATMENT OF WASTEWATER GENERATED SLUDGE:	Yes	No
30. DISPOSAL OF WASTEWATER GENERATED SLUDGE:	Yes	No
31. OTHER:		
C. IF THE PROJECT IS RELATED TO MUNICIPAL SOLID WAS	TE IT CONCEDNO.	
C. IF THE PROJECT IS RELATED TO MONICHAE SOLID WAS	IE, II CONCERNS.	
32. RECOVERY OF RECYCLABLE MATERIALS:	Yes	No

33. TREATMENT OF MUNICIPAL SOLID WAST Composting	E: Incineration	Power Generation	n
34. DISPOSAL OF MUNICIPAL SOLID WASTE: Transfer Stations	Sanitary Landfill		
35. OTHER:			
D. IN CASE OF OTHER RELATED PROJECTS	PLEASE INDICATE REL	ATIONSHIP:	
36. PREVENTION, CONTROL, OR REMEDIAT	ION OF POLLUTION RE	LATED TO:	
Water Supply Treatment of Wastewater Municipal Solid Waste Disposal	Yes No Yes No Yes No		
How is the Project is Related to at Least One of t	he Three Previously Mentio	ned Subjects:	
PROJECT P	LANNING INFORMATIO)N_	
THE PROJECT ALREADY HAS COMPLETED:			
37. ENVIRONMENTAL ASSESSMENT:		Yes No	
38. PRELIMINARY ENGINEERING STUDY:		Yes No	
39. TECHNICAL FEASIBILITY STUDY:		Yes No	_
40. FINANCIAL FEASIBILITY AND PROJECT M	ANAGEMENT STUDY:	Yes No	
41. PRELIMINARY DESIGN:		Yes No	_
42. FINAL DESIGN:		Yes No	_
43. COST ANALYSIS:		Yes No	

44. COST ESTIMATE FOR:	
Construction of Facilities: Operation & Maintenance (annual):	\$U.S. \$U.S. \$U.S. \$U.S.
Planning: months Environmental Assessment Design: months Permits Construction: months Preparation of Site: Plant Start-up:	months months months months months months
Total Time Required: mont 46. HAVE POTENTIAL SOURCES OF FINANCING BEEN IDENTIFIED? Indicate Which and the Percentage that may be Contributed by Each: MUNICIPAL % STATE FEDERAL % NADBANK	
WORLD BANK % PRIVATE BANK	% N ORGANIZATIONS%%%
47. WHAT WILL BE THE SOURCE OF REVENUE FOR REPAYMENT OF a)Government b)Serviced Users d)Other e)In Process of Identification	
48. PUBLIC MEETINGS HAVE BEEN HELD IN THE COMMUNITY:	Yes No
49. PUBLIC PARTICIPATION PLAN HAS BEEN DEVELOPED:	Yes No
50. WILL THE APPLICANT REQUEST RECOGNITION FOR HIGH SUSTAINABILITY FOR THIS PROJECT?	Yes No

TECHNICAL ASSISTANCE

51. TO REQUEST TECHNICAL ASSISTANCE, IDENTIFY THE AREAS AND THE APPROXIMATE FUNDING NEEDED. (A Technical Assistance Manual is currently under development. Additional information may be required of the applicant):

۵)	Water/Wastewater Master Plan	Ċ
,		\$ \$
· -	Project Definition/Identification of Issues Analysis of Alternatives & Cost Comparison	\$ \$
	Planning	\$\$
•	Preliminary Environmental Assessment of the Site	\$ \$
	Preliminary Technical Feasibility	\$
	Preliminary Financial Feasibility	\$
• `	Other	\$
,		•
DVANCE FUN	DING:	
a)	Environmental Assessment	\$
b)	Technical Feasibility Study	\$
c)	Development of Preliminary Engineering Design	\$
d)	Development of Final Engineering Design	\$
e)	Development of Operation & Maintenance Plan	\$
f)	Preparation of Financial Statements	\$
g)	Financial Feasibility Study	\$
h)	Development of Rate Schedule	\$
i)	Analysis of City Operated vs. Concession of Services	\$
j)	Study of Institutional Capacity Building	\$
k)	Evaluation of Social Issues	\$
l)	Development of Water Conservation Plan	\$
m)	Development of Waste Reduction, Reuse, &/or Recycling Plan	\$
	Evaluation of Sustainability Parameters	\$
o)	Implementation of Community Participation Plan	\$
	Other (specify)	\$



NADBANK INSTITUTIONAL DEVELOPMENT COOPERATION PROGRAM INFORMATION SHEET





NORTH AMERICAN DEVELOPMENT BANK INSTITUTIONAL DEVELOPMENT COOPERATION PROGRAM

INFORMATION SHEET

Name of the utili	ty:		
Representative:			
Address:			
City:	County:		
State:	Country:		
Telephone:	Fax:		
	ne following categories in which the utility should be included.		
The util	lity has:		
0	a BECC-certified project and needs institutional strengthening to facilitate financing; or		
0	submitted a Step I certification application to BECC and needs institutional		
strengthening to facilitate certification and financing; or			
0	preliminary projects targeted at small, low-income communities and needs institutional strengthening; or		
0	a need for assistance in strengthening their institutional capacities, but do not have a specific project; or		
0	a need for institutional strengthening in order to enhance privatization efforts.		
Briefly describe h	ow the utility fits in the category checked above:		
Describe the type	of assistance requested:		
Estimated cost of	assistance:		

GTN REGISTRATION FORM AND CODES



TIJUANA RIVER ESTUARY

GTN

Global Technology Network Environmental & Energy Technology Opportunities for U.S. Businesses - Register Now

The Economic Growth Center's Office of Business Development introduces the Global Technology Network (GTN). This service focuses on identifying targeted international business opportunities in health, energy and environment, agribusiness, communications and information technologies.

GTN assists U.S. businesses in gaining access to Latin American, Asian, African and other international environmental markets by providing current trade and business leads, and important market

information through the Environmental Technology Network for Asia and the Americas (ETNA) and the U.S.-Africa Technology Network (U.S.-ATN).

In partnership with in-country technical representatives, the U.S Department of Commerce, and other professional groups, GTN works to gather the most current business information concerning infrastructure projects, wastewater treatment systems, and other developments which will have a positive impact on the environment.

The investment opportunities/trade leads are electronically matched with U.S. firms registered in our databases Trade lead information is then faxed to the appropriate U.S. companies.

Companies must register with GTN/ETNA to receive environmental technology opportunity notices.
Fill out the registration form and fax it to

(202) 663-2670.

GTN Environmental Technology Registration Form

** Please attach a 200 word company description and/or a brochure**

Company:	Contact Name and Title:							
Street Address, C	ity, State, Zip:							
Tel:		Fax:			Email:			
					Internet	t Access:	Yes	No
Type of Compar	iy: University / Non	Governmental Organization	n / Ot	therNonprofit	t:			
(circle)	Manufacturing /	Financial / Marketing / Trac	de / C	onsulting / O	ther:			
Number of Emp	loyees:	YearEstablished:	,		Annual	Revenue	s:	
Regions of Inter	est (circle):							
Asia/Near East	Sub-Saharan Africa	Latin America/Caribbean	New	/ Independent	States	Central	& Easte	ern Europe
Is your company	seeking agents/distributors?		Yes	No				
Does your compa	any have international exper	rience?	Yes	No				
Would your com	pany want to team with oth	ers on large projects?	Yes	No				
Has your compar	ny ever done business with U	USAID?	Yes	No				
	SPECIFY UP T	O 20 ENVIRONMENTA	L TE	CHNOLOGY	CODE	:s		

FAX TO (202) 663-2670 OR MAIL TO:

Global Technology Network • G/EG/GTN Room 100, SA-2 • Washington, D.C. 20523-0229

About the Codes

The registration form allows you to specify up to 20 codes from the taxonomy listing. The coding system was developed to follow nine basic areas in environmental technology.

ETNA currently has over 2,000 U.S. environmental firms registered in the GTN database. These classification codes cover over 500 different sub-sectors within the environment and energy fields.

GTN provides USAID missions, and African, Asian and Latin American public and private sector organizations access to a database that is able to match U.S. technology with a specific developing country's environmental requirement.

The following is a breakdown of the types of Finns in the GTN database by major environmental sectors:

- Water Pollution Equipment
- Environmental Management
- Solid Waste Equipment
- Water Pollution Management
- Solid Waste Management
- Air Pollution
- Pollution Prevention/Clean Tech.
- Air Pollution Management
- Energy

A	AIR POLLUTION	AA05.00 AA05.01	Specialty Gases Calibration Gases	AT04.03	Solvent Concentration
AM	Managament Caminas	AA05.01 AA05.02	Gas Generation Equipment	AT04.04	(Adsorption) Thermal Oxidation
AM01.00	Management Services Air Control Regulations &	AA05.02 AA06.00	Other (please specify)	AT 04.04 AT 05.00	Combustible Gas Controls
AWIU1.00	Policy Development	AA00.00	Other (please specify)	AT05.00 AT05.01	Flares
AM02.00	Air Permitting	AC	Collection Systems	AT05.01 AT06.00	Particulate Controls
AM03.00	Air Pollution Management	AC01.00	Active Collection Systems-	AT06.00 AT06.01	Electrostatic Precipitators
Alvi03.00	Training	AC01.00	Landfills (Extraction Wells)	AT 06.01 AT 06.02	Fabric Filters (Baghouses)
AM04.00	Air Pollution Modeling	AC02.00	Passive Gas Collection-	AT06.02 AT06.03	Mechanical Collectors/
AM05.00	Asbestos Abatement	AC02.00	Landfills (Vents)	A100.03	Cyclones
AM06.00	Emissions Monitoring/	AC03.00	Other (please specify)	AT06.04	Venturi Scrubbers
AIVIUU.UU	Characterization	AC03.00	Other (please specify)	AT 00.04 AT 07.00	Fume/Mist/Ambient Air
AM07.00	Emissions Trading	AT	Treatment Systems	A107.00	Controls
AM08.00	Facility Pollution	AT01 00	Acid Gas/SOx Controls	AT07.01	CFC Replacement Control
AIV100.00	Management	AT01.01	Dry Reagent Injection	A107.01	Systems Systems
AM09.00	Indoor Air Pollution	AT01.01 AT01.02	Spray Drying Flue Gas	AT07.02	Air Duct Cleaning
Alviu3.00	Analysis	A101.02	Desulfurization	AT07.02 AT07.03	Fume Hoods/Spray Booths
AM10.00	Indoor Air Pollution Control	AT01.03	Wet Flue Gas	AT07.03 AT07.04	Indoor Air Filter Systems
AM11.00	Laboratory Services	A101.03	Desulfurization	AT07.04 AT07.05	Mist Collectors
AM12.00	Noise Analysis & Abatement	AT02.00	NOx Controls	AT07.06	Odor Control Chemicals
AM13.00	Radon Assessment	AT02.00 AT02.01	Flue Gas Recirculation	AT07.00 AT07.07	Odor Control Equipment
AW113.00	Measures & Control	AT02.01 AT02.02	Low-NOx Burners	A107.07	(Scrubbers)
AM14.00	Monitoring/Testing for	AT02.02 AT02.03	Non-Selective Catalytic	AT07.08	Wet Scrubbers
AW114.00	Clean Room Facilities	A102.03	Reduction	AT07.08 AT08.00	Mobile Source Controls
AM15.00	Clean Room Design/Build	AT02.04	Selective Catalytic	AT08.00	Alternative Fuel Vehicles
AW113.00	(Facilities above Class 10)	A102.04	Reduction	AT08.01 AT08.02	Catalytic Converters
AM16.00	Clean Room Design/Build	AT02.05	Selective Non-Catalytic	AT08.02 AT08.03	Diesel Particulate Filter
AW110.00	(Facilities Class 10 & below)	A102.03	Reduction	A100.03	Controls
AM17.00	Other (please specify)	<u>AT03.00</u>	Combined SOx NOx	AT08.04	Electric Vehicles
AWII7.00	Other (please specify)	A103.00	Controls	AT08.05	Evaporative Emission
AA	Analytical/Monitoring	AT03.01	In-Furnace	711 00.00	Controls
AA	Instruments	AT03.02	Post-Combustion	AT08.06	Fuel Additives
AA01.00	Analyzers	AT03.03	Slagging Combusters	AT08.07	Vehicle Emission Monitoring
AA02.00	Detectors (Gas)	AT04.00	VOC Controls	AT09.00	Emergency Release Controls
AA03.00	Monitors	AT04.00	Biofiltration	111 50.00	& Containment
AA04.00	Samplers	AT04.01 AT04.02	Catalytic Oxidation	AT 10.00	Noise Abatement Equipment
	~p.010	11101.02	Catalytic Chication	AT 10.00	Clean Room Products
				<u> </u>	Cicui itoom i iouucu

AT11.01	Cormonts/Accessories/Supplies	SC01.06	Native Soil	SH03.07	Railroads
AT11.01 AT11.02	Garments/Accessories/Supplies Ultrapure Air Filters - HEPA/	SC01.00 SC01.07	Sprayed Asphalt	SH03.08	Transfer Station Systems &
A111.02	ULPA	SC01.07 SC01.08	Synthetic Membranes	31103.06	ū
AT12.00	Other (please specify)	SC01.08 SC02.00	Vertical Barriers	SH03.09	Equipment Trucks
A112.00	Other (please specify)	SC02.00 SC02.01	Cement-Bentonite Slurry Wall	SH03.10	Health & Safety Equipment
S	SOIL/SOLID WASTE	SC02.01 SC02.02	Ground Freezing	SH03.10	Street Cleaning Equipment/
S	POLLUTION	SC02.02 SC02.03	Grout Curtains	31103.11	Vehicles
	FOLLUTION	SC02.03 SC02.04	Injection-Permeability Agent	SH04.00	Other (please specify)
SM	Managament Campiaga	SC02.04 SC02.05	Sheet Piling	ST104.00	Treatment Systems
SM01.00	Management Services Combustion/Incineration	SC02.03 SC02.06	Soils Slurry Wall		Spill/Hazardous Waste
31/101.00		SC02.06 SC02.07		ST01.00	Remediation
CM09 00	Systems Design		Vibrating Beam	CT01 01	Bioremediation Products
SM02.00 SM03 00	Contaminated Site Cleanup Emergency Response	SC03.00 SC03.01	<u>Horizontal Barriers</u> Ground Freezing	ST01.01 ST01.02	Sorbents/Polymers
31/103 00	Services	SC03.01 SC03.02	Grout Injection	ST01.02 ST01.03	Other Products &
SM04.00	Hazardous Waste	SC03.02 SC03.03	Injection-Permeability Agent	3101.03	Equipment
31/104.00	Management	SC03.03 SC04.00	Surface Controls	ST02.00	In-Situ Soil Treatment
SM05.00	Hospital/Pathological Waste	SC04.00 SC04.01	Daily Cover	3102.00	Technologies
31/103.00	Management	SC04.01 SC04.02	Dikes & Berms	ST02.01	Bioremediation
SM06.00	Industrial Waste Recycling/	SC04.02 SC04.03	Diversion of Collection Systems	ST02.01 ST02.02	
31/100.00	Recovery	SC04.03 SC04.04	Dust Controls	ST02.02 ST02.03	Bioventing Solidification/Stabilization
SM07.00	Laboratory Services	SC04.04 SC04.05	Grading	ST02.03	Soil Flushing
SM07.00	Landfill Design/	SC04.03 SC04.06	Revegetation	ST02.04 ST02.05	Soil Vapor Extraction (SVE)
510100.00	Management	SC04.00 SC04.07	Sediment Controls	ST02.05	Vitrification
SM09.00	Municipal Refuse	SC04.07 SC04.08	Soil Stabilization	ST02.00 ST03.00	Ex-Situ Treatment Technologies
514105.00	Management	SC04.00 SC04.09	Surface Seals	ST03.01	Air Stripping
SM10.00	On-site Construction	SC04.00	Other (please specify)	ST03.01	Chemical Leaching/Metals
514110.00	Services	500.00	Other (picuse specify)	5100.02	Extraction
SM11.00	Post Consumer Product	SH	Handling/Control Systems	ST03.03	Dechlorination
	Recycling	SH01.00	Field Services	ST03.04	Neutralization
SM12.00	Site Inspection	SH01.01	Drum & Debris Removal	ST03.05	Other Chemical Modification
SM13.00	Solid Waste Management	SH01.02	Excavation of Soils/Solids	ST03.06	Oxidation
	Training	SH01.03	Excavation of Semi-Solids	ST03.07	Reduction
SM14.00	Solid Waste Regulations		(Non-Pumpable)	ST03.08	Soil Washing
	& Policy Development	SH01.04	Materials Handling	ST03.09	Solvent Extraction
SM15.00	TestingToxic Substances		Equipment	ST03.10	UV/Photolysis
SM16.00	Waste-to-Energy Plant	SH01.05	Heavy Equipment	ST03.11	Bioremediation
	Design	SH02.00	Solids Processing	ST03.12	Thermal Desorption
SM17.00	Other (please specify)	SH02.01	Baling/Compacting	ST04.00	Solidification, Fixation &
	1	SH02.02	Classification/Sorting		<u>Stabilization</u>
SA	Analytical/Monitoring	SH02.03	Crushing/Grinding/	ST04.01	Lime-Flyash
	Instruments		Shredding	ST04.02	Portland Cement
SA01.00	Toxicology (GC/MS)	SH02.04	Drying	ST05.00	Sorption
SA02.00	UST/AST Leak Detectors	SH02.05	Magnetic Processes	ST05.01	Alumina
SA03.00	Other (please specify)	SH02.06	Restaurant/Food Waste	ST05.02	Carbon
			Grinding & Pulping	ST05.03	Flyash
SC	Containment Technologies	SH02.07	Screening	ST05.04	Kiln Dust
SC01.00	Capping & Lining	SH03.00	Transportation & Storage	ST05.05	Lime
SC01.01	Asphalting Concrete	SH03.01	Barges	ST05.06	Zeolites
SC01.02	Chemical Sealants/	SH03.02	Bins	ST06.00	<u>Encapsulation</u>
	Stabilizers	SH03.03	Bulk Tanks	ST06.01	Asphalt
SC01.03	Clay	SH03.04	Drums	ST06.02	Proprietary Agents
SC01.04	Concrete	SH03.05	Emergency Response	ST06.03	Thermoplastics
SC01.05	Multi-Layered Cap	SH03.06	Fabric Bags		

CT07 00	Landfilling	W	WATED O WASTEWATED	WC01.04	Well Points
<u>ST07.00</u> ST07.01	<u>Landfilling</u> Hazardous Waste	VV	WATER & WASTEWATER POLLUTION	WC01.04 WC01.05	
ST07.01 ST07.02	Medical Waste		FOLLUTION	WC01.03	Groundwater Pump & Treatment Systems
ST07.02 ST07.03	Municipal & Non-Hazardous	WM	Management Services	WC01.06	Landfill Leachate Collection
ST07.03 ST08.00	Composting Techniques	WM01.00	Aquaculture Wastewater	WC01.00	Treatment Systems
ST08.00 ST09.00	Landfarming Techniques	VV IVIU1.00	Management	WC01.07	In-Situ Groundwater
ST109.00 ST10.00	Thermal Technologies/	WM02.00	Coastal Resource Protection	WC01.07	Treatment
3110.00	Industrial Waste	VV IVIU2.00		WC02.00	
ST10.01	Cement Kilns	WM03.00	& Planning Englagical Postoration of	WC02.00 WC02.01	Bulk Liquid Handling Gravity/Siphon
ST10.01 ST10.02	Liquid Injection Incinerators	WW103.00	Ecological Restoration of Streams & Wetlands	WC02.01 WC02.02	Industrial Vacuum
ST 10.02 ST 10.03	Rotary Kiln Incinerators	WM04.00	Effluent Sampling/	WC02.02 WC02.03	
ST10.03 ST11.00	Thermal Technologies/	WW104.00	Monitoring Services	WC02.03 WC02.04	Irrigation Equipment Pumps
3111.00	<u>Municipal-Hospital Waste</u>	WM05.00	Emergency Response	WC02.04 WC02.05	Weirs
ST11.01	Fluidized Bed Combusters	WW103.00	Planning/Services	WC02.03 WC03.00	<u>Liquid Storage</u>
ST11.01 ST11.02	Mass Burn Incinerators	WM06.00	Groundwater Sampling/	WC03.00	Aboveground Tanks
ST11.02 ST11.03	Modular-Type Incinerators	VV IVIOO.00	Monitoring Services	WC03.01 WC03.02	Bulk Tanks
ST11.03	Multiple Hearth Incinerators	WM07.00	Laboratory Services	WC03.02 WC03.03	Drums
ST11.04 ST11.05	Pyrolysis/Controlled Air	WM08.00	Lake & Marine Management	WC03.04	Secondary Containment
5111.05	Combustion Incinerators	WM09.00	Toxicology Studies	WC03.05	Underground Tanks
ST11.06	Refuse-Derived Fuel	WM10.00	Water Pollution	WC04.00	<u>Transportation</u>
ST11.07	Ship Based Incineration	VV1V110.00	Management Training	WC04.01	Tanker Truck
ST11.08	Microwaving	WM11.00	Water Regulations & Policy	WC04.02	Railroad
ST11.09	Autoclaving	***************************************	Development	WC04.03	Pipeline
ST11.10	Waste-to-Energy Technology	WM12.00	Potable Water Systems	WC05.00	Sewer Systems
ST12.00	Bioreclamation	WM12.01	Water Purification Plant	WC05.01	Sewer System Construction
ST12.01	Bacteria Augmentation		Design/Construction	WC05.02	Sewer Cleaning & Tunneling
ST12.02	Natural	WM12.02	Water Distribution Systems	WC05.03	Portable Sanitary Products/
ST13.00	Recycling Technologies		Design/Construction		Collection
ST13.01	Aluminum	WM13.00	Wastewater Systems	WC06.00	Other (please specify)
ST13.02	Collection/Sorting/ Processing	WM13.01	Wastewater Treatment Plant		1 1 3/
	Equipment		Design/Construction	WT	Treatment Systems
ST13.03	Discarded Electronics/	WM13.02	Wastewater Collection Systems	WT01.00	Water Purification (Potable &
	Appliances		Design/Construction		<u>Industrial)</u>
ST13.04	Glass	WM14.00	Stormwater Management	WT01.01	Activated Carbon Filters
ST13.05	Lead Battery	WM15.00	Hydrology Services	WT01.02	Chemical Coagulation/
ST13.06	Iron, Steel, Metals	WM16.00	Other (please specify)		(Flocculation Color-Turbidity)
ST13.07	Paper			WT01.03	Continuous De-lonization
ST13.08	Plastic	WA	Analytical/Monitoring Instruments	WT01.04	Desalination
ST13.09	Products from Recycled	WA01.00	Analyzers	WT01.05	Distillation
	Materials	WA02.00	Flowmeters	WT01.06	Electrodialysis
ST13.10	Rubber/Tires	WA03.00	Samplers	WT01.07	Ion-Exchange
ST13.11	Construction/Demolition	WA04.00	Water Quality Monitors	WT01.08	Multi-Media Filters
	Debris	WA05.00	pH Meters	WT01.09	Other Filtration Methods
ST14.00	Recycled Waste Brokers	WA06.00	Conductivity Meters	WT01.10	Reverse Osmosis
ST14.01	Aluminum	WA07.00	Marine Spill Detection	WT01.11	Sand/Coarse Media Filters
ST14.02	Paper	****	Monitoring Equipment	WT01.12	Ultra-Filtration
ST14,03	Plastic	WA08.00	Other (please specify)	********	(for Manufacturing Processes)
ST14.04	Steel	****	6 H	WT01.13	Water Conditioning
ST14.05	Nonferrous Materials	WC	Collection/Control Systems	<u>WT02.00</u>	Innovative Wastewater
ST14.06	Reagents (Solvents, Acids)	WC01.00	Groundwater Collection/	MITTO 01	<u>Treatment Systems</u>
ST14.07	Recycled Oil	WC01 01	Extraction	WT02.01	Integrated Pond Systems
ST15.00	Other (please specify)	WC01.01	Ejector Jet Pumps	WT02.02	Package Treatment
		WC01.02	French Drains		
		WC01.03	Pipe & Media Drains		

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WT02.03	Sequential Batch Reactors	WT11.01	Air Stripping	EM01.16	TQM/TQEM
	(Single Tank)	WT11.02	Chlorine Oxidation	EM01.17	Software Development
WT03.00	Wastewater Treatment	WT11.03	Electrochemical	EM02.00	<u>ISO 14000</u>
WT03.01	Air/Gas Flotation-Induced,	WT11.04	Ion Exchange	EM02.01	Auditing
	Dissolved, Electrolytic	WT11.05	Irradiation	EM02.02	Certification
WT03.02	Comminutors	WT11.06	Metals Treatment	EM02.03	Management Systems Design
WT03.03	Grit Chambers	WT11.07	Neutralization (pH)	EM02.04	Training
WT03.04	Oil-Grease/Water Separation	WT11.08	Other Chemical Treatment	EM03.00	ISO 9000
	(Skimmers)	WT11.09	Photolysis	EM03.01	Auditing
WT03.05	Screens/Bar Racks	WT11.I0	Precipitation	EM03.02	Certification
WT03.06	Sedimentation Tanks	WT11.11	Reducing Agents	EM03.03	Life Cycle Assessments
WT03.07	Mechanical Flocculators	WT11.12	Steam Stripping	EM03.04	Training
WT04.00	Wastewater Treatment-	WT11.12 WT11.13	Wet Air Oxidation	LIVI00.01	Trummig
<u> </u>	Secondary (Biological	WT12.00	Liquid Waste & Wastewater	EE	Energy Efficient Systems
	Treatment	<u> </u>	Recycling	LL	& Eco-Products
WT04.01	Aerators	WT12.01			& Eco-Floudets
			Acid Waste Regeneration	EM01.00	I IVA C /D-f-:ti
WT04.02	Activated Sludge Processes	WT12.02	Electrowinning	EM01.00	HVAC/Refrigeration
WT04.03	Rotating Biological	WT 12.03	Solvent Recovery	EM01.01	Air Conditioners/Heat
	Contractors	WT12.04	Used Oil Recycling		Pumps/Dehumidifiers
WT04.04	Secondary Clarifiers	WT13.00	Marine Spill Control	EM01.02	Boilers/Heating Systems
WT04.05	Trickling Filters	WT13.01	Bioremediation Products	EM01.03	Chillers/Thermal Energy
WT05.00	Wastewater Treatment-	WT13.02	Containment Booms		Storage Systems
	<u>Disinfection</u>	WT13.03	Oil Recovery Barges	EM01.04	Compressors/Blowers/Fans
WT05.01	Chlorination	WT13.04	Oil Skimmers	EM01.05	Efficient Wood/Kerosene/
WT05.02	Ozonation	WT13.05	Sorbents/Polymers		Gas/Solar Stoves
WT05.03	UV Disinfection	WT14.00	Other (please specify)	EM01.06	Refrigeration Systems/
WT06.00	Wastewater Treatment-				Freezers/Ice Makers
	TD +1 (A.1 1)	_	TAILUD O AIR CEAUDA T	FD 404 07	
	<u>lertiary (Advanced)</u>	E	ENVIRONMENTAL	EM01.07	Space Heaters
WT06.01	<u>Tertiary (Advanced)</u> Activated Carbon Filters	E	ENVIRONMENTAL MANAGEMENT&	EM01.07 EM01.08	Space Heaters Timers/Sensors/Controls
WT06.01 WT06.02	Activated Carbon Filters	E	MANAGEMENT&	EM01.08	Timers/Sensors/Controls
WT06.02	Activated Carbon Filters Biological Treatment		MANAGEMENT& ENERGY SYSTEMS	EM01.08 EM01.09	Timers/Sensors/Controls Water Heaters
WT06.02 WT06.03	Activated Carbon Filters Biological Treatment Chemical Treatment	EM	MANAGEMENT & ENERGY SYSTEMS Environmental Management	EM01.08 EM01.09 EM01.10	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems
WT06.02 WT06.03 WT06.04	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters	EM <u>EM01.00</u>	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management	EM01.08 EM01.09 EM01.10 EM02.00	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls
WT06.02 WT06.03 WT06.04 WT06.05	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal	EM <u>EM01.00</u> EM01.01	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal	EM EM01.00 EM01.01 EM01.02	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems
WT06.02 WT06.03 WT06.04 WT06.05	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds	EM EM01.00 EM01.01 EM01.02 EM01.03	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands)	EM EM01.00 EM01.01 EM01.02	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge-	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion)	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM03.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM03.03 EM04.00	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03 WT09.04	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds Gravity Thickening (Thickeners)	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training GIS & GPS Systems Health & Safety Policy	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02 EM04.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials Recycled Building Materials Sealants
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds Gravity Thickening	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07 EM01.08	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training GIS & GPS Systems	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02 EM04.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials Recycled Building Materials
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03 WT09.04	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds Gravity Thickening (Thickeners)	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07 EM01.08	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training GIS & GPS Systems Health & Safety Policy	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02 EM04.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials Recycled Building Materials Sealants
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03 WT09.04	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds Gravity Thickening (Thickeners) Pressure Filters	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07 EM01.08 EM01.09 EM01.10 EM01.11	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training GIS & GPS Systems Health & Safety Policy & Procedures	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02 EM04.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials Recycled Building Materials Sealants
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03 WT09.04 WT09.05 WT09.06 WT09.07	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds Gravity Thickening (Thickeners) Pressure Filters Thermal Dryers Vacuum Filtration	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07 EM01.08 EM01.09 EM01.10 EM01.11	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training GIS & GPS Systems Health & Safety Policy & Procedures Permitting/Licensing Construction Site/Project	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02 EM04.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials Recycled Building Materials Sealants
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03 WT09.04 WT09.05 WT09.06 WT09.07 WT10.00	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds Gravity Thickening (Thickeners) Pressure Filters Thermal Dryers Vacuum Filtration Sludge Disposal	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07 EM01.08 EM01.09 EM01.10 EM01.11	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training GIS & GPS Systems Health & Safety Policy & Procedures Permitting/Licensing Construction Site/Project Management	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02 EM04.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials Recycled Building Materials Sealants
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03 WT09.04 WT09.05 WT09.06 WT09.07 WT10.00 WT10.00	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds Gravity Thickening (Thickeners) Pressure Filters Thermal Dryers Vacuum Filtration Sludge Disposal Land Application	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07 EM01.08 EM01.09 EM01.10 EM01.11 EM01.12 EM01.13	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training GIS & GPS Systems Health & Safety Policy & Procedures Permitting/Licensing Construction Site/Project Management Project Financing	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02 EM04.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials Recycled Building Materials Sealants
WT06.02 WT06.03 WT06.04 WT06.05 WT06.06 WT06.07 WT07.00 WT07.01 WT08.00 WT08.01 WT09.00 WT09.01 WT09.02 WT09.03 WT09.04 WT09.05 WT09.06 WT09.07 WT10.00	Activated Carbon Filters Biological Treatment Chemical Treatment Multi-Media Filters Nitrogen Removal Phosphorous Removal Polishing Ponds (Constructed Wetlands) Wastewater Sludge- Treatment/Management Sludge Pumps Sludge Stabilization Aerobic/Anaerobic Digesters Sludge Dewatering Belt Filter Presses Centrifuges Dewatering & Drying Beds Gravity Thickening (Thickeners) Pressure Filters Thermal Dryers Vacuum Filtration Sludge Disposal	EM EM01.00 EM01.01 EM01.02 EM01.03 EM01.04 EM01.05 EM01.06 EM01.07 EM01.08 EM01.09 EM01.10 EM01.11	MANAGEMENT & ENERGY SYSTEMS Environmental Management Environmental Management Consulting & Engineering Ecosystem Assessments Ecotourism Emergency Response Services (Fire, Explosion) Engineering/Construction Environmental Compliance Auditing Environmental Impact/Risk Assessment Environmental Policy Development Environmental Training GIS & GPS Systems Health & Safety Policy & Procedures Permitting/Licensing Construction Site/Project Management	EM01.08 EM01.09 EM01.10 EM02.00 EM02.01 EM02.02 EM02.03 EM02.04 EM03.00 EM03.01 EM03.02 EM04.00 EM04.01 EM04.02 EM04.03	Timers/Sensors/Controls Water Heaters Clean Room HVAC Systems Process Controls Electrical Metering Equipment Energy Management Systems Gas Metering Equipment Other Process Controls Industrial Power Efficient Boiler Technologies Process Heat Recovery Cogeneration Insulation & Building Materials Corrosion Protection Insulation Other Energy-Efficient Building Materials Recycled Building Materials Sealants

GTN - Environmental Technology Network

Page 5 of 6

Technologies Biomass Conversion Combustion Gasification Landfill Gas Systems Anaerobic Digestion Fermentation
RENEWABLE TECHNOLOGIES Renewable Energy
Products-Commercial/ Industrial Other (please specify)
Products-Consumer/Retail Environmentally Friendly
Environmentally Friendly
Low-Emissivity Units/ Sashes Eco-Products
Coated/Low-Emissivity Flat Glass
Adhesives, Films, Coatings & Glazings
Window Systems/Glazing
Other Equipment
Computers
Office Equipment
Integral Horsepower (>1hp) Motors
Fractional Horsepower (<1hp) Motors
Equipment Electronic Adjustable Speed Drives (ASDs)
Motors & Motor-Driven
Residential Fixtures
Outdoor/Industrial Fixtures Photovoltaic-Assisted
Lamps
High-Intensity Discharge
Controls/Timers/Sensors
Fluorescent Lamps/CFLs Electronic Ballasts
Commercial Fixtures
Lighting

RE05.01	<u>Hydroelectric</u>	RE07.06	Passive Heating Materials
RE05.02	Micro scale (<250 kW)	RE07.07	Solar Water Heating
RE05.03	Small scale (< 10 MW)	RE07.08	Climate-Sensitive Architecture
RE05.04	Large scale (> 10 MW)		& Design/Daylighting
RE06.01	<u>Hydrogen</u>	RE08.01	Ocean/Tidal/Wave Power
RE07.01	<u>Solar</u>	RE08.02	Tidal/Wave Power Systems
RE07.02	Photovoltaic Cells/Panels	RE08.03	Ocean Thermal Power
RE07.03	Photovoltaic Power Generation	RE09.01	Wind Power
RE07.04	Parabolic Troughs, Dishes	RE09.02	Power Generation Turbines
	& Receivers	RE09.03	Water Pumping Systems
RE07.05	Solar Collection Panels		

P POLLUTION PREVENTION

If you are registering a company that specializes in pollution prevention technologies, you must select not only an industry category, but also all applicable subcategories.

For example, a clean technology firm that manufactures water-based paint would select PP10.08 because it specializes in material substitution. If this company is interested in receiving general trade leads for the painting & coating industry category, it would also select PP10.00.

PP	Pollution Prevention Industry	PP	Pollution Prevention
	Categories:		Sub-categories:
DO4		0.0	
P01	Automotive	00	Clean Technology Pollution
PP02			Prevention Development
PP03		01	Inventory Control
PP04		02	Cost Analysis/Life Cycle Analysis
PP05		03	Housekeeping/Operating
PP06			Practices
PP07		04	Recycling/Re-use Technologies
PP08		05	Process/Product Design
PP09	Metal Finishing & Electroplating		(New facilities)
PP10	Painting & Coating	06	Process Modification
PP11	Palm Oil Plantations & Refineries		(Existing facilities)
PP12	Pesticides	07	Equipment Retrofication
PP13	Petroleum Refining	08	Material Substitution
PP14	Pharmaceuticals		
PP15	Plastics		
PP16	Pulp & Paper		
PP17	Rubber		
PP18	Semiconductors		
PP19	Sugar		
PP20	Tanneries		
PP21	Textiles		
PP22	Agro-Crop		
PP23	Agro-Livestock		
PP24			
l			

ALTERNATE FINANCING SOURCES



PPENDIX E



ARGENTA CAPITAL ENTERPRISES, L.L.C.

International Infrastructure Finance

FOR FURTHER INFORMATION PLEASE CONTACT:

Scott A. Baldridge, President

ARGENTA CAPITAL ENTERPRISES in California, 714.427.1111.

New Infrastructure Funding Source – Mexican Capital Markets

INFRASTRUCTURE NEED

Mexico faces staggering investment needs in infrastructure, especially if the goals engendered by the North American Free Trade Agreement are to be fulfilled. It is estimated that at the national level alone, the Mexican federal government needs to invest \$34 billion between now and the year 2015 for large-scale national and high profile infrastructure projects. When taking state and municipal infrastructure needs into account, this investment need would be well over \$100 billion.

Mexico has experienced rapid urban growth that has led to an increase in the requirements for basic urban services. Demographic studies indicate that by the year 2000 the population of Mexico will reach 100 million with more than 60% concentrated in urban areas. The pressure on state and municipal governments to provide basic services will grow as the demands made on them grow, especially as the developing policy of decentralization gives local government more responsibility and accountability. However, 15 million Mexican households are currently without running water and 30 million lack access to sewer systems. A recent U.S. Department of Commerce Office of Technology Exports study estimates that, along the border alone, \$4 billion is needed to complete and expand water and other environmental projects while an additional \$3 billion is required for new wastewater collection and treatment systems. Every day the country's cities generate 90,000 tons of solid waste, of which, only 62,000 tons are collected and 15,000 tons are deposited in recognized landfills. There is 8 million tons of industrial waste generated each year, and only 20% are treated in permitted facilities. The excess is illegally deposited in rivers, sewers and clandestine sites. Other basic municipal services, such as local roads and bridges, low income housing, schools, public markets and street lighting also need improvements as cities grow.

TRADITIONAL FUNDING SOURCES

Historically, most municipal water districts in Mexico (as well as in the U.S. during the 1970's) built their water and wastewater systems using federal aid or subsidized credit. In Mexico, from 1986 to 1991, subsidized loans and grants provided 85% of the capital investment for local water districts, or *organismos de agua*. Local water authorities, through user fees, provided only 8% of this investment, while the remainder came from Mexican and multilateral development bank credits.

Burdened by debt, the governments of Latin America, including Mexico, have aggressively turned away from official borrowing, and have moved toward privatization or concession contracts to finance infrastructure. The general belief is that the private sector can provide a more efficient model for infrastructure development. In practice, however, private sector financing has fallen short of expectations.

Many concessions were awarded to private developers to build, own and operate wastewater treatment plants. Most of these projects failed because the ultimate payment source for the concession was the user fees collected at the local level. Only a few of the more than 30 concessions granted by local *organismos* in the past eighteen months have obtained financing.

Since concessions depend on payments from the municipality, their ability to attract debt is largely a function of the creditworthiness of the local government entity and their ability to access a well-informed investor base. However, municipalities and water districts are often not creditworthy due to historical budget deficits, their poor track record in collecting user fees, and outdated water systems that cause as much as 70% water leakage.

Another problem endemic to Mexico is the unavailability of long-term funds. Potable water plants, water distribution networks, and wastewater treatment plants need to be financed on a long-term basis. Traditional funding sources for Mexican projects limit the amortization of the construction and development costs from five to seven years. This places an undue financial burden on the current users of these public facilities whose assets have a useful life of 30 years. More recent funding sources have come from international institutional investors, yet this raises questions concerning currency and convertibility risks, as well as constitutional restrictions to foreign exchange exposure.

In the U.S., local governments access trillions of dollars for their projects through the issuance of taxexempt municipal bonds. But for Mexico, the basic question remains; where will the billions of dollars for basic municipal infrastructure come from?

FUNDING SOLUTION

The obvious solution is to identify investors with long-term liabilities that require sound long-term assets. These investors should be well informed of the workings of the local institution and have confidence in their long-term viability. Such an investor base now exists in Mexico.

On July 1, 1997, the Mexican social security system was privatized. In a private pension plan a worker's contributions are held in an individual account which is invested by a private fund administrator. In Mexico these funds are the *Afores* (covering retirement pensions) or the insurance company annuity funds (covering workmen's compensation and death or disability payments). Workers will be able to select membership in various competing *Afores*, or insurance company annuity funds, and the fund managers will be looking to invest these contributions in investment instruments bearing the best rates of returns for its members.

This has immediate implications for infrastructure finance in Mexico. Within one year of operation, the *Afores* will have over \$4 billion under management that they must invest, with the annuity funds having an additional portfolio of \$1 billion. These funds will increase by over \$5 billion each year as new workers enter the system. By the year 2005, the Mexican portfolio managers of the new pension and annuity funds will have over \$40 billion to invest in Mexico. Private portfolio managers, not government bureaucrats, will invest this internal savings pool. One of the regulatory conditions for investment is that the securities undergo an independent credit rating. Therefore, there will be a growing appetite for investment-grade, long-term securities.

ACCESSING THE DOMESTIC CAPITAL MARKET

How does this effect water authorities? Water authorities have a readily identifiable source of income: the cash flows generated by the collection of water and sewer fees from customers in their region, both residential and industrial. These agencies can be evaluated by lenders just like any business enterprise, and their ability to incur debt can be quantified. Those water authorities that can demonstrate borrowing capacity should be able to borrow from Mexican institutional investors just like any public or private entity anywhere in the world.

Water agencies are the best candidates for accessing this newly developing capital market. Investors feel comfortable with municipal water project debt, due to water being essential. Private companies come and go, but municipal governments will always exist, and they will always have to provide basic services like water to their populations. What is essential is to develop and portray the water authority as a strong and viable institution. Emphasis should be placed on identifying the current state of affairs, and putting forth a plan to strengthen the institution.

PPENDIX E

A major effort of institutional strengthening of water districts is underway. World Bank technical assistance funds, funneled through the National Water Commission and the federal development bank, Banobras, are bringing state-of-the-art planning and engineering to local governments. Engineers and administrators are increasingly able to design and operate modern facilities. The new Federal Water Law provides economic incentives for rapidly upgrading water and wastewater systems. By the year 2000, all municipalities with populations over 50,000 must meet strict wastewater discharge standards or face discharge fees calculated to be twice the cost of building and operating a wastewater treatment plant.

An advantage to accessing the domestic capital markets is accountability to institutional investors. This accountability encourages an integrated planning and development approach to water system management and facilities construction. It is not advisable to develop discreet, stand-alone projects like wastewater treatment plants without looking at the overall needs and capacity of the entire water district. Wastewater treatment by itself does not generate revenues; water sales generate revenues. The plant must be developed within the context of also providing potable water distribution, its ability to cut water leakage and other wastes within the network, and the capacity to collect water fees on a rational, metered basis. All functions of a water authority should act as a cohesive enterprise.

Investors know that a systematic management approach will provide the basis for the water district to be able to repay its debts over a long-term period. It is prudent to invest a few million dollars to address leaks and to computerize the billing and collection of fees, before spending \$30 million on a wastewater treatment plant. A small investment could immediately and significantly increase revenues, and thereby provide the foundation to support debt for the larger projects.

In the context of a Mexican water authority, the systematic analysis of the institution will take the following criteria under review:

- 1) Annual water loss, and a cost/benefit analysis of its repair.
- 2) Annual operations running at a surplus.
- 3) Analysis of the rate setting policies in real terms.
- 4) Historical review of fee collection and the remedies for non-collection.
- 5) Political autonomy of the water authority.
- 6) Analysis of industrial/residential customer base, with a projection of regional growth.
- 7) Cohesive long-term capital investment plan.
- 8) Independent credit review.

These key points are important because their implementation demonstrates a sound institution with the prospects of healthy future cash flows.

What is the status of financing for water systems in Mexico? As recently as a year ago, it was thought that the only financing resource available were the international capital markets. While this remains a capital source, something new has occurred in Mexico. There is now a giant pool of money being created that could be used to purchase rated water district bonds. Pension privatization creates a new domestic peso capital market for long-term infrastructure debt that never existed in Mexico before. Institutional strengthening and creditworthiness immediately take on a new urgency. Water authorities can now connect improvements and sound credit ratings with a growing domestic capital pool to finance their expansion and wastewater treatment.

The Mexican cities of Leon or Monterrey have existed for centuries and will exist for centuries more. They have and will continue to provide water services. Investors know that one way or another, they will always find the resources to bring water to their citizens. Therefore, if they can show they are financially sound, they represent a good bet for private investment.

It is an investment in Mexico.



Argenta Capital Enterprises, L.L.C.

INTERNATIONAL INFRASTRUCTURE FINANCE

Corporate Profile

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APPENDIX E

ARGENTA CAPITAL ENTERPRISES LIST OF SERVICES

Argenta Capital Enterprises provides financial services to US and Mexican local, federal and corporate clients involved in infrastructure development. Argenta's principals have over eight years of experience, development and contractual work in the public finance market in the United States and Mexico.

Argenta specializes in projects ranging from \$1 million to \$75 million in the areas of water/wastewater, energy, industrial development and housing. Argenta's services are organized into the following special groups:

PROJECT FINANCE GROUP

Arranges debt and equity financing for infrastructure development projects.

- Structuring and placement of long term dollar and peso denominated debt
- Refinancing of tax-exempt or taxable municipal debt
- Project finance for government concession projects
- · Procurement of project equity financing
- · Project finance for state and municipal water, wastewater treatment, energy and housing projects

FINANCIAL ADVISORY SERVICES GROUP

Advises municipal clients on institutional strengthening and public policy matters, and provides advisory services to private companies with infrastructure related projects.

- Analysis of municipal and state debt capacity
- Assistance in restructuring of current debt
- Assistance with credit rating process
- Institutional strengthening studies, and development of implementation programs
- Government policy studies
- Assistance in negotiating optimal terms for concession projects

MERGERS & ACQUISITIONS GROUP

Assists private Mexican and international infrastructure companies in obtaining equity funds in order to expand their business base.

- Joint venture arrangements with domestic and international partners
- Assistance with technology transfer agreements
- · Identification of corporate acquisition targets
- Equity placement for corporate growth
- Business plan development

RECENT PROJECTS IN MEXICO

The following is a selection of recent Argenta projects performed in Mexico:

• Bi-national Project Finance Program

Performed preliminary legal and financial research on the ability of Mexican local and state agencies to access the US tax-exempt municipal market for bi-national projects. The impact to this innovative program is significant, in that qualified projects are able to access the multi-trillion dollar US municipal capital market. The US municipal market offers 30 year financing at fixed interest rates currently ranging from 5% to 8%.

• Mexican Water Authority Credit Rating

Assisted CESPT, the water authority of Tijuana, Baja California, in obtaining a shadow credit rating from Standard & Poor's. The project included an extensive analysis of the organizational structure of the water authority, including state and federal legal issues, rate setting policies, billing and collection issues, and a review of the water authority's five year capital program. This credit rating can assist CESPT in obtaining 20-year, peso-based financing, at reasonable fixed interest rates to refinance existing debt or for future projects.

Pemex Off-Balance Sheet Water Treatment Project

Acted as structuring agent for a wastewater treatment facility bid out as a Build, Own, Operate, and Transfer project to be integrated into a Pemex refinery. The project involved a 12-year, dollar linked financing, with the only collateral being a service rendering agreement from Pemex Refinacion. The transaction obtained an investment grade credit rating of BBB- from Standard & Poor's.

• Banobras Long Term Financing Program

Working with the federal development bank, Banobras, to develop 20-year, peso based financing mechanisms for state and local government infrastructure projects. The work entails evaluating Mexican institutional investor needs, determining the regulatory environment, and developing the structural framework to arrive at a sound credit, and marketable debt instrument.

CNA 1997 Water Law Research

Completed a study of the impact on the Mexican water industry due to the changes of the federal water regulations implemented in July of 1997. The study involved several meetings with various departments of the federal water commission, CNA, to analyze the breakdown of the fines, surcharges, and incentives for water discharge according to region and water receptor mass.

PREVIOUS UNDERWRITTEN TRANSACTIONS

CLIENT	PROJECT	AMOUNT
San Francisco Redevelopment Agency	Residential Mortgage Revenue Bonds-Opera Plaza	40,000,000
Retama Development Corporation	Retama Racetrack Senior Refunding Bonds	7,000,000
Retama Development Corporation	Retama Racetrack Subordinate Refunding Bonds	82,000,000
Ontario Redevelopment Agency	Taxable Collateralized Mortgage Obligation Bonds	3,520,000
City of Rancho Cucamonga	Mortgage Asset Liquidation	6,467,000
City of Palmdale	Taxable Collateralized Mortgage Obligation Bonds	5,976,000
Oceanside-San Buenaventura Housing Agency	Taxable Collateralized Mortgage Obligation Bonds	4,436,000
Oceanside-San Buenaventura Housing Agency	Subordinate Taxable Collateralized Mortgage Obligation Bonds	509,000
Pico Rivera Redevelopment Agency	Mortgage Asset Liquidation	43,400,000
Paramount Redevelopment Agency	Mortgage Asset Liquidation	26,260,000
City of Palmdale	Mortgage Asset Liquidation	19,209,000
City of Palmdale	Mortgage Asset Liquidation	10,680,00
City of Palmdale	Mortgage Asset Liquidation	10,000,000
New Castle, Delaware	Mortgage Asset Liquidation	10,000,000
City of Palmdale	Mortgage Asset Liquidation	3,088,000
City of Palmdale	Taxable Special Obligation Bonds	51,000,000
Cities of Aurora & Naperville, Illinois	FNMA Collateralized Mortgage Obligation Bonds	27,500,000
Lancaster-Grand Terrace- Housing Authority	Taxable Special Obligation Bonds	9,550,000
City of Cypress	Taxable FNMA Mortgage-backed Securities Program	5,500,000
City of Pomona	Mortgage Asset Liquidation	58,395,000
City of Pomona	Mortgage Asset Liquidation	30,000,000
City of Pomona	Mortgage Asset Liquidation	24,505,000
City of San Bernadino	GNMA Mortgage Asset Liquidation Program	18,840,000
City of Cypress	Mortgage Revenue Refunding Bonds	7,595,000
City of Cypress	Subordinate Mortgage revenue Refunding Bonds	810,000
San Marcus Public Facilities Authority	Tax Allocation refunding Bonds-Project Area 1,2 and 3	47,425,000
Lancaster-Grand Terrace Huntington Park	Mortgage Revenue Refunding Bonds	9,385,000
Lancaster-Grand Terrace Huntington Park	Subordinate Mortgage Revenue Refunding Bond	1,900,000
City of Palmdale	Interest Only Certificates	1,300,000
City of Palmdale	Mortgage Revenue refunding Bonds	46,625,000
City of Palmdale	Residential Mortgage Revenue Refunding Bonds	9,260,000
City of Colton	Taxable FNMA Mortgage-Backed Securities Program	6,475,000
City of Montclair	Taxable FNMA Mortgage-Backed Securities Program	4,400,000
City and County of San Francisco	Mortgage Revenue Bonds Rights Acquisition	83,085,000
City of San Bernadino	Taxable Collateralized Mortgage Refunding Bonds	38,034,745
Housing Authority of Brevard County, FL	Mortgage Revenue Bonds, Rights Acquisition	90,010,000
Tulsa County Housing Authority, OK.	Collateralized Mortgage Refunding Bonds	57,798,085
City of Junueau, Alaska	Collateralized Mortgage Refunding Bonds	29,550,000
New Castle County, Delaware	Mortgage RevenueBonds-Rights Acquisition	125,000,000
New Castle County, Delaware	Mortgage RevenueBonds-Rights Acquisition	90,000,000
City of Waukegan, IL	Taxable Collateralized Mortgage Refunding Bonds	13,985,000
City of Ontario	Variable Rate Multifamily Revenue Demand Bonds	7,000,000
City of Oceanside	Multifamily Housing Revenue Refunding Bonds	43,240,000
Walnut Valley School District	Refunding General Obligation Bonds	52,000,000
City of Cypress	Special Refunding Tax Bonds-Sorrento Homes	14,425,000
San Marcus, Public Facilities Authority	Public Improvement Revenue Bonds	8,315,000
Jurupa Community Services District	Special Tax Bonds-Mira Loma Area	12,605,000
San Marcus Public Facilities Authority	Community Facilites District No. 88	61,700,000
Rialto Redevelopment Agency	Tax Allocation Bonds-Auga Mansa	5,575,000
Rialto Redevelopment Agency	Tax Allocation Bonds-Series A	13,100,000
Rialto Redevelopment Agency	Tax Allocation Bonds-Series B	2,920,000
City of Pomona	GNMA & FHLMC Mortgage-Backed Securities	24,505,000
Village of Addison, Cities of Alton, Granite City and Pokin, IL.	Mortgage Asset Liquidation	35,924,535

TOTAL 1,431,102,365



